Public Health Division
Drinking Water Program
Kate Brown, Governor

Oregon Health Authority

444 A St
Springfield, OR 97477
Phone: (541) 726-2587
Fax: (541) 726-2596

Source Water Assessment Update

To: Riverbend-Riverbank Community
Robert Smethers
461 Hebb Park Rd
Westlinn, OR 97068

Date: December 28, 2020

Re: Source Water Assessment Update: PWS # 4100458 - Riverbend-Riverbank Community

Dear Riverbend-Riverbank Community,

The Drinking Water Protection staff of the Oregon Health Authority (OHA) and the Oregon Department of Environmental Quality (DEQ) are pleased to provide Riverbend-Riverbank Community and their customers supplemental Source Water Assessment (SWA) information to help your water system develop strategies to reduce drinking water contamination risk. OHA and DEQ staff used advanced mapping tools and databases to identify current land use practices and potential contaminant sources within the mapped Drinking Water Source Area(s). This Update also contains resources to help your water system identify and implement contamination risk-reduction strategies. OHA staff assembled these materials after a review of potential contaminant sources within your water system's Drinking Water Source Area(s) and with input on risks of greatest concern to the Riverbend-Riverbank Community.

Below are what we believe to be higher priority potential contaminant sources based on that review:

- *Homesteads - Rural - Machine Shops/Equip Maintenance*
- *Large Capacity Septic Systems -Class V UIC (serves >20)*
- *UST - Confirmed Leaking Tanks - DEQ LUST List*

Management strategies for reducing risks associated with each of these potential contaminant sources are listed in the table immediately following this letter.
These include strategies that can be put to use right away. Grant funds are available to help pay for these and other types of drinking water protection activities. See Business Oregon – IFA in Appendix 4 for more information.

This report also contains:

- A regional map of nearby public water systems (PWSs) that may have similar potential contaminant source concerns.
- A zoomed in aerial photo basemap of Riverbend-Riverbank Community's Drinking Water Source Area(s).
- A map showing land ownership/use and potential contaminant sources within Riverbend-Riverbank Community's source area(s). We encourage Riverbend-Riverbank Community to use this map to identify nearby land use authorities and associated potential contaminant sources because few public water systems have legal jurisdiction over their entire Drinking Water Source Area(s).
- An inventory table listing the potential contaminant sources identified inside Riverbend-Riverbank Community's Drinking Water Source Area(s). Using this table in conjunction with the maps will help identify additional potential contaminant sources for risk-reduction strategies.

The appendices include the following drinking water source protection resources:

- **Appendix 1**, a guide for developing and implementing source water protection strategies;
- **Appendix 2**, notes and a key to the maps and potential contaminant source inventory table;
- **Appendix 3**, a resource list for water quality, including links to fact sheets;
- **Appendix 4**, funding sources and free or low-cost technical assistance.

Your water system and customers can use this report as a stand-alone document for drinking water source protection or (if available) in conjunction with the Source Water Assessment report for your system completed between 1998 and 2005 by OHA and DEQ. Original Source Water Assessment reports contain additional information characterizing well/spring construction, drinking water source areas, and susceptibility to potential contaminant sources. Contact OHA at 541-726-2587 to receive the Riverbend-Riverbank Community's original SWA report or to request a new report if one was not previously completed.

To further support protection efforts, a statewide Groundwater Resource Guide for Oregon Public Water Systems and other valuable resources are available at: http://www.oregon.gov/deq/wq/programs/Pages/DWP-Source.aspx. For additional assistance regarding drinking water source protection, please contact Tom Pattee at OHA (541-726-2587).

Sincerely,

DWS Staff,
OHA Drinking Water Services

CC: Electronic Source Water Assessment file, Springfield

Risk Reduction Strategies for Potential Contaminant Sources in *Riverbend-Riverbank Community's* Drinking Water Source Areas

PLEASE NOTE: The Internet URL Addresses listed in this document were included as a convenience for the users of this document. All URL Addresses were functional at the time this publication was last updated (September 2019). Active links for many of the resources are located at https://www.oregon.gov/deq/FilterDocs/dwpGWBMPnRes.pdf. Additional resources can also be found at https://www.oregon.gov/deq/wq/programs/Pages/DWP-Pubs.aspx see "Summary of Technical Assistance Resources". Contact Drinking Water Protection Staff (listed at https://www.oregon.gov/deq/wq/programs/Pages/DWP.aspx) with questions or for assistance with any potential sources of contamination not identified in this document.

Potential Pollutant Type	Potential Impact	Pollutant Reduction and Outreach Ideas
Residential lands – **private urban or private rural homes**	Spills, leaks, or improper handling of chemicals, fuels, wastewater, and other materials may impact drinking water; infiltration containing pesticides or fertilizers may impact drinking water	Provide information to residents within your drinking water source area. See Example letter – http://www.oregon.gov/deq/FilterDocs/dwpExampleLettertoResidents.docx. Outreach can be done through local media or via utility bills. Send (or refer to) relevant fact sheets and web resources from list below. Fact Sheets/Resources *DEQ DWP website for Residential/Rural Land Uses (under Management Strategies by Land Use): http://www.oregon.gov/DEQ/wq/programs/Pages/DWP-Source.aspx *Groundwater Basics: https://www.oregon.gov/deq/FilterDocs/dwpGwBasics.pdf *Healthy Lawn, Healthy Environment: https://www.epa.gov/sites/production/files/2014-04/documents/healthy_lawn_healthy_environment.pdf *What is Household Hazardous Waste?: http://www.oregon.gov/deq/FilterDocs/WhatisHHW.pdf *Household Hazardous Waste Program: http://www.oregon.gov/DEQ/Hazards-and-Cleanup/hw/Pages/hhw.aspx *Household Pharmaceutical Waste Disposal: http://www.oregon.gov/deq/FilterDocs/HouseholdPharmaceuticalWasteDisposal.pdf *Groundwater Friendly Gardening Tips: http://wellwater.engr.oregonstate.edu/groundwater-friendly-gardening Stormwater runoff from residential lands: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_StormWater.pdf Additional measures may include: □ Establish ongoing educational program on household hazardous waste and proper disposal of pharmaceuticals, lawn and landscaping, septic system maintenance.
Underground storage tanks (USTs)	Existing or historic contamination from spills, leaks, or improper handling of stored materials may impact the drinking	* Notify owner or manager of their location within your drinking water source area. Share technical information about protecting drinking water resources and basic groundwater principles: http://www.oregon.gov/deq/wq/programs/Pages/DWPAssessments.aspx https://www.oregon.gov/deq/FilterDocs/dwpGwBasics.pdf

Potential Pollutant Type	Potential Impact	Pollutant Reduction and Outreach Ideas
	water supply; spills or improper handling during tank filling or product distribution may also impact the drinking water supply	*DEQ's Underground Storage Tank Program: http://www.oregon.gov/DEQ/tanks/Pages/default.aspx *EPA info on managing Underground Storage Tanks: https://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_USTs.pdf * For Active Registered Tanks: Verify permit status at http://www.oregon.gov/DEQ/tanks/Pages/Tank-Lists.aspx * Contact DEQ Tanks program with questions. Ensure pre-treatment for stormwater runoff and best management practices for stormwater are in place. * For Leaking USTs, verify status at https://www.oregon.gov/deq/tanks/Pages/Tank-Lists.aspx. Contact DEQ Tanks program at: Underground Storage Tanks Helpline, 1-800-742-7878, 503-229-6652, tanks.info@deq.state.or.us or Drinking Water Protection staff (Julie Harvey, DEQ, 503-229-5664) for assistance in verifying that cleanup is protective of drinking water. * For non-regulated tanks (<1,100 gals or large heating oil tanks) also send: *Frequently Asked Questions About Heating Oil Tanks http://www.oregon.gov/deq/tanks/Pages/hot.aspx
Large capacity onsite septic systems (serves > 20 people)	If not properly sited, designed, installed, and maintained, septic systems can impact groundwater and drinking water	□ In addition to general Residential/Municipal Fact Sheets, send: *Managing Septic Systems to Prevent Contamination of Drinking Water http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_SepticSystems.pdf □ Verify UIC registration and on-site permit with DEQ. □ Get notification from DEQ on permit modifications □ Upgrade septic systems and establish an ongoing septic system maintenance program. DEQ On-site permitting: http://www.oregon.gov/DEQ/Residential/Pages/Onsite.aspx □ If applicable, ongoing education program for residents or businesses on household hazardous waste and proper disposal of pharmaceuticals. * Household Hazardous Waste Program: http://www.oregon.gov/DEQ/Hazards-and-Cleanup/hw/Pages/hhw.aspx * Household Pharmaceutical Waste Disposal: http://www.oregon.gov/deq/FilterDocs/HouseholdPharmaceuticalWasteDisposal.pdf
Stormwater run-off - focusing on high density housing (> 1 House/0.5 acre) but also includes commercial, industrial, and municipal areas.	Improper use, storage, and disposal of household chemicals may impact the drinking water supply; stormwater run-off or infiltration may carry contaminants to drinking water supply	□ Identify underground injection wells and dry wells for stormwater disposal. Verify permit status. □ Develop or participate in an existing education program on stormwater issues. □ Develop ongoing public education program on pesticide and fertilizer use, household hazardous waste, pet waste, and household pharmaceutical waste disposal □ Host or facilitate ongoing household hazardous waste collections □ Work with your municipality to increase emphasis on pre-treatment for stormwater runoff and best management practices for stormwater. □ Develop best management practices and maintenance plan for drywells and injection wells. □ Review Portland's Stormwater Management Manual and the Oregon's Water Quality Model Code and Guidebook (or other stormwater management document), and develop program to address stormwater issues. □ Consider municipal code to address stormwater - see DLCD Water

Potential Pollutant Type	Potential Impact	Pollutant Reduction and Outreach Ideas
		Quality Model Code and Guidebook □ Send applicable information from list below: Fact Sheets/Resources *UIC Fact Sheets and Guidance http://www.oregon.gov/deq/wq/wqpermits/Pages/UIC-Guidance.aspx *Managing Stormwater to Prevent Contamination of Drinking Water: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_StormWater.pdf *Managing Household Pharmaceutical Waste: https://www.oregon.gov/deq/FilterDocs/HouseholdPharmaceuticalWasteDisposal.pdf *Water Quality Model Code and Guidebook: https://www.oregon.gov/deq/FilterDocs/WQModCodeGuide.pdf *Portland's Stormwater Management Manual: https://www.portlandoregon.gov/bes/64040 *Best Management Practices (BMPs) for washing vehicles: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_VehicleWashing.pdf *Managing Pet and Wildlife Waste to Prevent Contamination of Drinking Water: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_PetWaste.pdf *Disposal of Chlorinated Water from Swimming Pools and Hot Tubs: https://www.oregon.gov/deq/FilterDocs/bmpchlorwaterdisp.pdf *Household Hazardous Waste Program: http://www.oregon.gov/DEQ/Hazards-and-Cleanup/hw/Pages/hhw.aspx *Underground Injection Control (UIC) Program (see Stormwater tab): http://www.oregon.gov/DEQ/wq/wqpermits/Pages/UIC.aspx *Healthy Lawn, Healthy Environment: https://www.epa.gov/sites/production/files/2014-04/documents/healthy_lawn_healthy_environment.pdf
Septic systems - residential, farm, commercial on-site systems	If not properly sited, designed, installed, and maintained, septic systems can impact drinking water; use of drain cleaners and dumping household hazardous wastes or pharmaceuticals can result in groundwater contamination; for higher-density septic, cumulative effects of multiple systems in an area may impact drinking water supply	In addition to resources listed for the categories Residential Lands – private rural homes and Commercial/Industrial, share relevant information from list below: Fact Sheets/Resources *DEQ Septic Smart Program web-site: http://www.oregon.gov/DEQ/Residential/Pages/Septic-Smart.aspx *Septic Smart for Homeowners - brochure: http://www.oregon.gov/deq/FilterDocs/septicowner.pdf *Managing Septic Systems to Prevent Contamination of Drinking Water: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_SepticSystems.pdf *Managing Household Pharmaceutical Waste: https://www.oregon.gov/deq/FilterDocs/HouseholdPharmaceuticalWasteDisposal.pdf Additional measures may include: □ Make "Septic Smart for Homebuyers" available at local permitting counter or to local realtors: https://www.oregon.gov/deq/FilterDocs/septicbuyer.pdf □ Develop ongoing education program on septic system operation, maintenance and upgrades

Potential Pollutant Type	Potential Impact	Pollutant Reduction and Outreach Ideas
		□ Consider grants to partially fund inspection/repair program □ Implement required inspection program on property transfer □ Refer local homeowners and small businesses to Oregon Onsite loan program that can help with septic system costs: http://www.oregon.gov/deq/Residential/Pages/Onsite-Loans.aspx
Wells (private domestic, municipal, commercial, industrial, irrigation, or unused wells)	Improperly installed or maintained wells and abandoned (unused) wells may provide a direct conduit for contamination to groundwater and drinking water source	Notify well owners of closure requirements for unused wells and construction requirements for active wells. * Ensure local cross-connection program protects public water supply. * Offer educational programs to residential well owners on proper maintenance and drinking water protection. * Provide financial incentives for permanent well abandonment according to the Water Resources Departments (WRD) 'Water Well Owners Handbook' (Provided well construction is adequate, temporary abandonment will be protective of groundwater---contact WRD Staff for assistance, and provide a well log.) * Verify proper well abandonment. * Adopt local ordinance or internal procedures to ensure compliance with WRD well abandonment requirements prior to development. * Share applicable information from list below: Fact Sheets/Resources *Domestic Well Safety Program Oregon Health Authority http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/SourceWater/DomesticWellSafety/Pages/index.aspx *Groundwater Basics: ttps://www.oregon.gov/deq/FilterDocs/dwpGwBasics.pdf *Water Well Owners Handbook & other related guidance documents (WRD): https://www.oregon.gov/OWRD/programs/GWWL/WCC/Pages/default.aspx *Groundwater Friendly Gardening Tips: http://wellwater.engr.oregonstate.edu/groundwater-friendly-gardening
Golf courses, parks, lawn care (any highly maintained areas)	Over-application or improper handling of pesticides/ fertilizers may impact drinking water. Excessive irrigation may cause transport of contaminants through runoff and infiltration	□ Determine degree and type of chemicals used for lawns and landscaping maintenance. □ Work with landowners or operators to minimize or eliminate pesticide and fertilizer application. □ Provide training/workshops to park staff on water quality protection. □ Use products that are environmentally friendly. □ Minimize irrigation, or use water efficient irrigation. □ Ensure pesticides are handled and stored safely. □ Ensure that a spill response plan is in place, a spill kit is available and employees are trained annually in spill response. □ For golf courses, distribute Integrated Pest Management (IPM) information, and info on certifications for sustainable practices, such as https://audubonintemational.org/acsp-for-golf/ or https://www.groundwater.org/action/community/green-sites.html Fact Sheets/Resources *Healthy Lawn, Healthy Environment: https://www.epa.gov/sites/production/files/2014-04/documents/healthy_lawn_healthy_environment.pdf *EPA Source Water Protection Practice Bulletins: - Managing Small-Scale Application of Pesticides: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_PesticidesSmallScale.pdf - Managing Turfgrass and Garden Fertilizer Applications: http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_Turf

Potential Pollutant Type	Potential Impact	Pollutant Reduction and Outreach Ideas
		grassGarden.pdf - Managing **Small Quantity Chemical Use:** http://www.oregon.gov/deq/FilterDocs/EPASWPPracticesBulletin_ChemUseSmallQ.pdf ***Groundwater Basics:** **https://www.oregon.gov/deq/FilterDocs/dwpGwBasics.pdf** ***Integrated Pest Management Info for Golf Courses:** **http://www.greengolfusa.com/tiki-index.php** ***Integrated Pest Management website (OSU):** **http://npic.orst.edu/pest/ipm.html**

Figures List:

Key to Figures[1]

Figure 1: Drinking Water Source Area and Vicinity Map[2]

Figure 2: Drinking Water Source Area Map[3]

Figure 3: Drinking Water Source Area with Land Ownership/Use and Potential Sources of Contaminants Map[4]

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[1]The Key provides legend symbols for the accompanying Figures. More detailed information regarding the Key is also provided in Appendix 2.

[2]The purpose of Figure 1, the Drinking Water Source Area and Vicinity Map, is to show other nearby water systems that may be addressing similar concerns with potential contaminant sources. It is often advantageous for water systems with similar concerns to work together when addressing those concerns.

[3]The purpose of Figure 2, the Drinking Water Source Area Map, is to show an up close map of the drinking water source area for the water system overlain on an aerial photo. The aerial photo can be used to help identify general land use practices such as agriculture, forestry, residential, and/or commercial/industrial areas.

[4]The purpose of Figure 3, Drinking Water Source Area with Land Ownership/Use and Potential Sources of Contaminants Map, is to show the location of potential contaminant sources and land ownership/use within the drinking water source area. Many water systems do not own or have management authority over large portions of their mapped drinking water source area. Therefore, when considering effective drinking water protection measures, it is advantageous to work with private land owners and/or agencies that are responsible for managing land use practices within the drinking water source area.

Additional Drinking Water Source Area Maps with more detail or other mapped features are also available upon request by contacting OHA (541-726-2587). Detailed or expanded maps may be especially useful in areas where a high density of potential contaminant sources are present.

DEQ Health

Key to Figures
Source Water Assessment Update
For public water systems using groundwater

General Legend:

- Groundwater drinking water source 1-year and 2-year time-of-travel (Zone 1 for Springs)
- Groundwater Drinking Water Source Area
- City limits (ODOT, 2018)
- Urban Growth Boundary
- County Boundary

Transportation:

- Interstate
- U.S. Routes
- Oregon Routes
- Roads (BLM)
- Railways (USGS - 2009)

Land Ownership/Use:

- Private Urban Lands (within city limits)
- Private Rural Lands (private non-industrial outside city limits)
- Agriculture (Ag Zoning (BLM) and NASS 2013)
- Private Industrial Forests (OOF data); Lands Managed by Private Industry (BLM)
- Local Government
- State Dept. of Forestry
- State - Other
- Bureau of Land Management
- U.S. Forest Service
- Federal - Other
- Bonneville Power Administration
- Bureau of Indian Affairs
- Undetermined
- Water

Potential Contamination Sources identified in State and Federal Regulatory Databases:

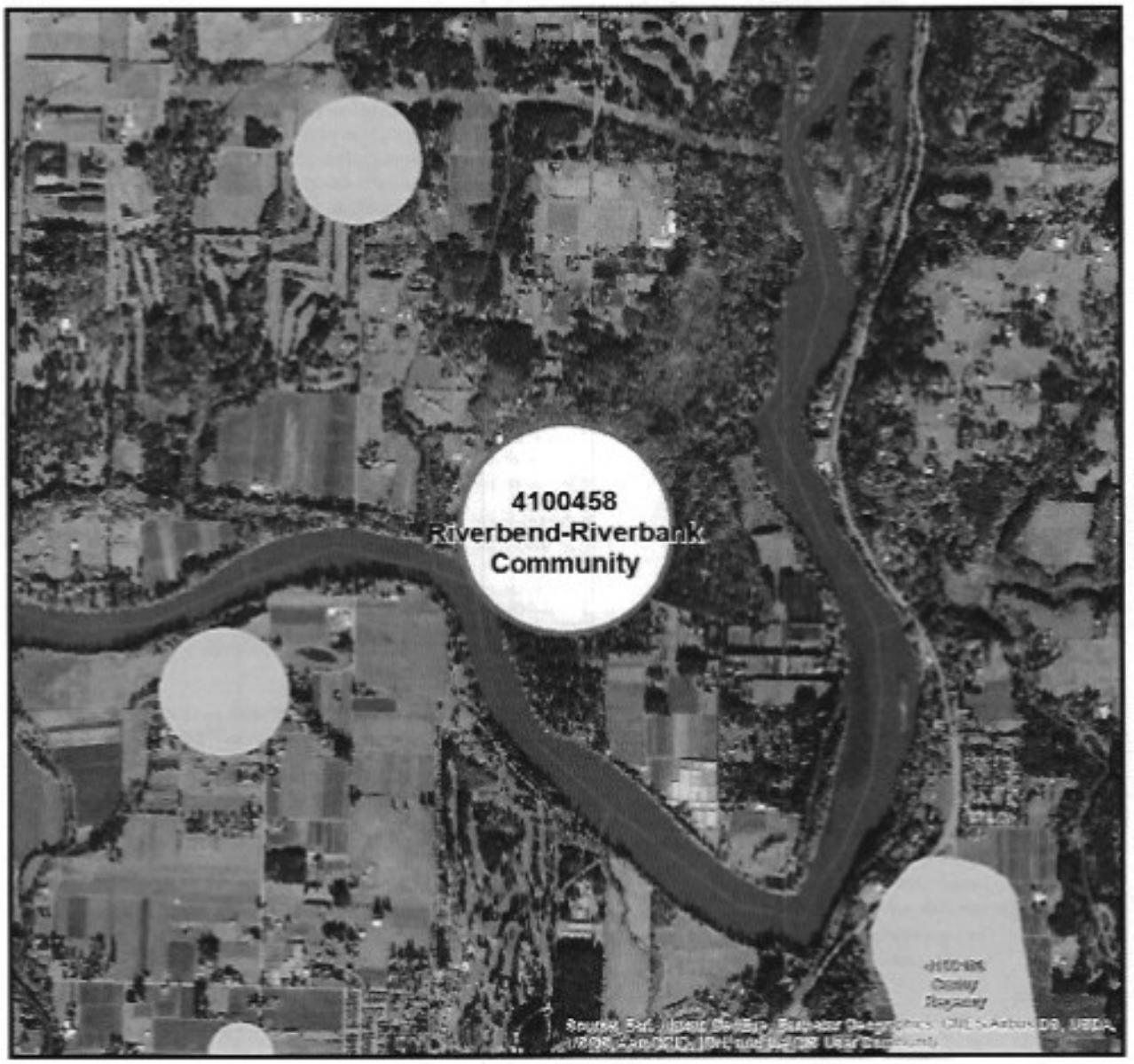
- Confined Animal Feeding Operations (ODA - CAFO as of 2018)
- Dry Cleaner, Active (DEQ as of 2018)
- Dry Cleaner, Dry Store (DEQ as of 2018)
- Dry Cleaner, Closed (DEQ as of 2018)
- Dry Cleaner, Inactive (DEQ as of 2018)
- Dry Cleaner, Solvent Supplier (DEQ as of 2018)
- Environmental cleanup site with known contamination (DEQ as of 2018)
- Environmental Cleanup sites - No Further Action or otherwise lower risk (DEQ- ECSI as of 2018)
- Hazardous Material Large Quantity Generator (DEQ - HW as of 2018)
- Hazardous Material Small Quantity or Conditionally Exempt Generator (DEQ - HW as of 2018)
- Hazardous Material Transport, Storage and Disposal sites (DEQ - HW as of 2018)
- Hazardous Substance Information System (OSFM as of 2019)
- Hazardous Substance Information System - AST (OSFM as of 2019)
- Hazardous Substance Information System (OSFM as of 2009)
- Hazardous Substance Information System - AST (OSFM as of 2009)
- Leaking underground storage tanks - Confirmed (DEQ as of 2018) (Location will likely need to be verified)
- Leaking underground storage tank with No Further Action required or otherwise lower risk, (DEQ as of 2018) (Location will likely need to be verified)
- Mining permits (DOGAMI as of 2018)
- Oil and Gas wells (permitted only) (DOGAMI as of 2018)
- Updated Source Water Assessments Potential Contaminant Sources (DEQ as of 2018)
- Original Source Water Assessment Potential Contaminant Source - Area-wide source (DEQ as of 2005)
- Original Source Water Assessment Potential Contaminant Source - Point source (DEQ as of 2005)
- School Locations OR (DHS as of 2015)
- Solid Waste sites (DEQ - SW as of 2018)
- Underground Injection Control (DEQ as of 2018)
- Underground Storage Tanks (DEQ as of 2018)
- Water Quality domestic wastewater treatment sites (DEQ - SIS as of 2018)
- Water Quality permits - active (DEQ - SIS as of 2018)
- Surface Water within 500' of PWS well/spring or 2-yr TOT (Note - this may be shown outside 2-yr TOT if other water systems are present and overlap with drinking water source area)

Potential contamination sources: The inventory of potential sources of pollution is based on readily available state and federal regulatory databases. The primary intent is to identify and locate significant potential sources of contaminants of concern. Nonregulated and nonpoint sources such as areas with agriculture, septic systems, or managed forests are generally not identified in the regulated databases but are presented in the figures as a factor of land ownership/use. It is important to remember that the sites and areas identified are only potential sources of contamination to the drinking water. Water quality impacts are not likely to occur when contaminants are used and managed properly and land use activities occur in such a way as to minimize contaminant releases. It is highly recommended that the community "enhance" or refine the delineation of the sensitive areas and the identification of the potential contamination sources through further research and local input. If there were no potential sources of contamination identified during the review of regulatory databases or community's enhanced inventory, the water system and community should consider the potential for future development to impact the source water.

Figure 1

Riverbend-Riverbank Community (PWS #4100458)

Drinking Water Source Area and Vicinity



0 0.3 0.6 1.2 1.8 2.4 3 Miles

1:26,170

Legend

- City limits (ODOT, 2017)
- Groundwater Drinking Water Source Area
- Nearby Groundwater Source Areas
- County Boundary
- Streams

See original Source Water Assessment (if available) for information on delineation method and aquiferwell parameters. Contact Oregon Health Authority Drinking Water Services at 541-726-2587 if a copy of the Source Water Assessment or additional information is needed.

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

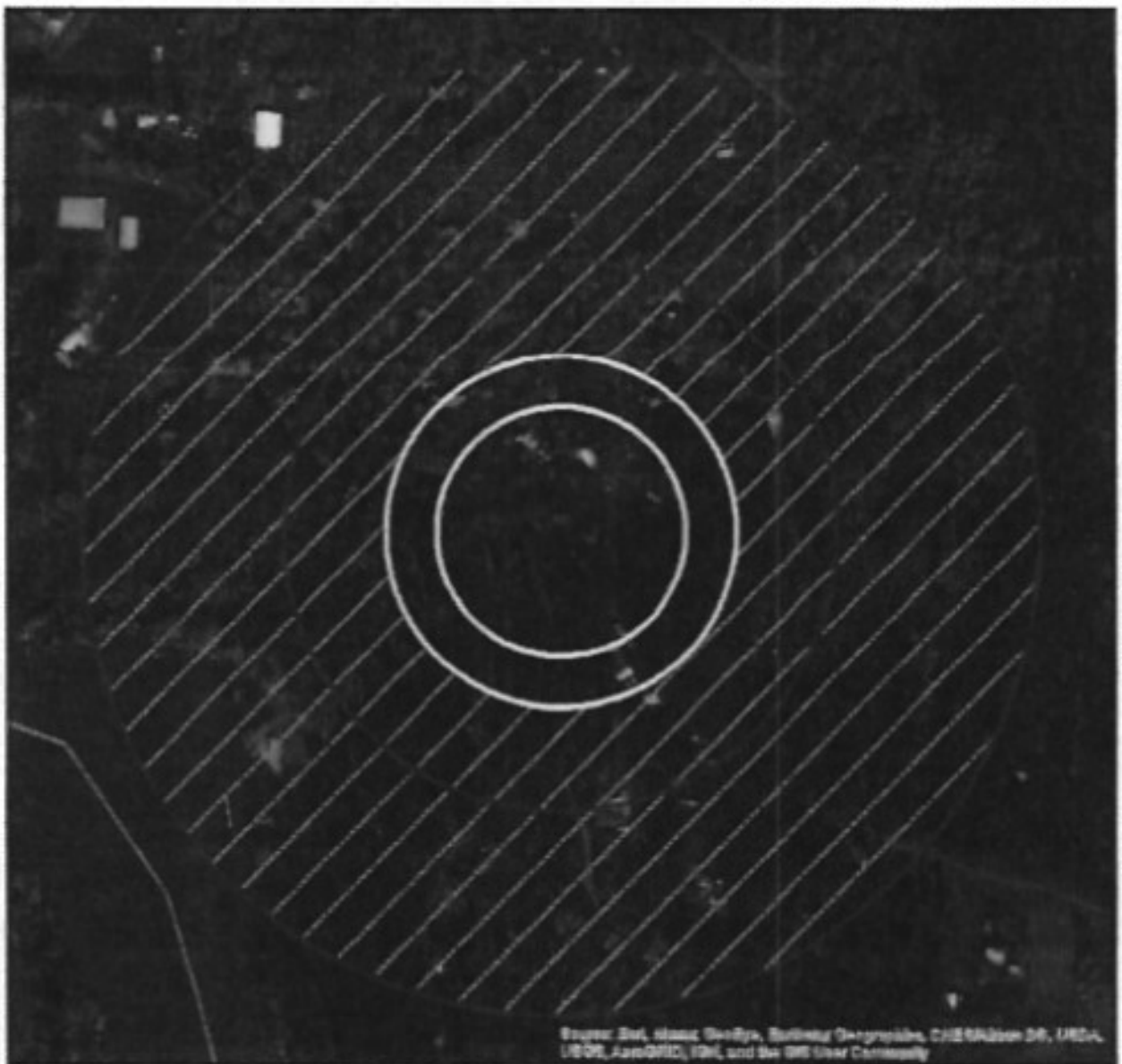
Prepared by: [DWS staff] Date: 11/22/2020

DEQ Health

Figure 2

Riverbend-Riverbank Community (PWS #4100458)

Drinking Water Source Area



0 0.15 0.3 0.6 Miles

1:5,730

Legend

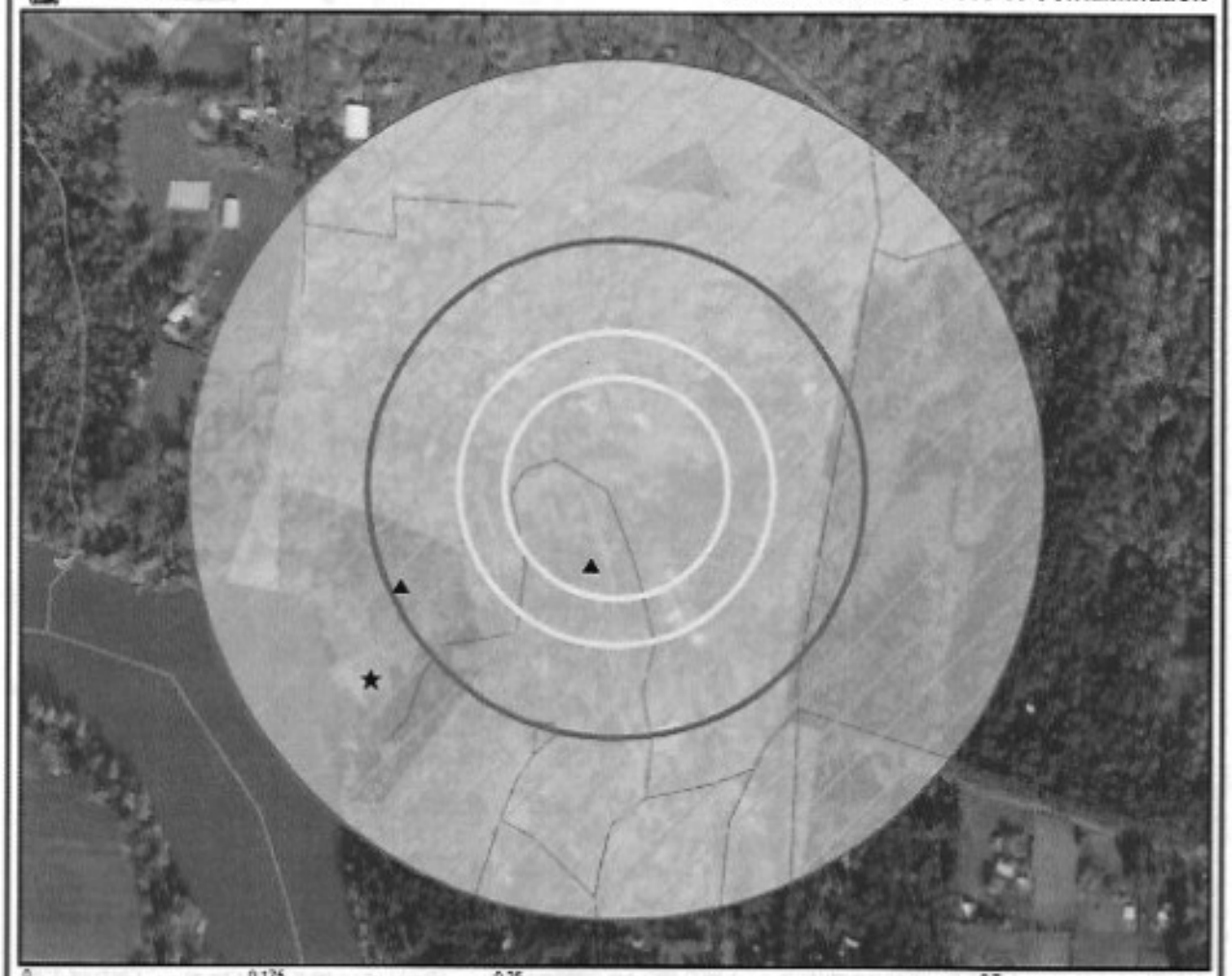
- Groundwater Drinking Water Source Area 1 & 2-yr TOT (Zone 1 for Springs)
- Groundwater Drinking Water Source Area 5 & 10/15 yr TOT Zone
- Streams
- City limits (ODOT, 2017)

See original Source Water Assessment (if available) for information on delineation method and aquifer/well parameters. Contact Oregon Health Authority Drinking Water Services at 541-726-2587 if a copy of the Source Water Assessment or additional information is needed.

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Prepared by: [DWS staff] Date: 11/22/2021

Figure 3
Riverbend-Riverbank Community (PWS #4100458)
Drinking Water Source Area with Land Ownership/Use and Potential Sources of Contamination



Land Ownership Use

Not all may be present in mapped area

- Private Urban Lands (within city limits)
- Private Rural Lands (private non-industrial outside city limits)
- Agriculture (Ag Zoning (BLM) and NASS 2013)
- Private Industrial Forests (TIOF data): Lands Managed by Private Industry (BLM)
- Local Government
- State Dept. of Forestry
- State - Other
- Bureau of Land Management
- U.S. Forest Service
- Federal - Other
- Bonneville Power Administration
- Bureau of Indian Affairs
- Undetermined
- Water

Legend

- Streams
- Groundwater Drinking Water Source Area 1 & 2 yr TOT (Zone 1 for Springs)
- Groundwater Drinking Water Source Area 5 & 10/15 yr TOT Zone
- City limits (ODOT, 2017)
- Interstate
- U.S. Routes
- Oregon Routes
- Roads (BLM)
- Railways (USGS - 2009)

Notes:

Additional legend and information are provided in Appendix 2. Prepared by: [DWS staff - 11/20/2020]

Due to limitations for locational data, some mapped locations will need further research to verify presence and location. Additional detailed maps can be provided for areas where high-density potential contaminant sources are present. This product is for information purposes and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Table 1. Public Drinking Water System Land Use Summary

See Appendix 2, for a Key to Tables for Notes and Descriptions of Acronyms.
The data on land uses is only approximate due to limitations within the GIS layers. Public water systems and communities could use tax lot data available from the counties or other datasets to further refine the analysis if higher accuracy is needed.

PWS ID	PWS Name	Subbasin	Population Served	County Served
4100458	*Riverbend-Riverbank Community*	*Middle Willamette*	*225*	*Clackamas*

Land Use / Ownership		
Owner Type	Area (sq. mi.)	% of Drinking Water Source Area
Total GW Area (sq. mi.)	**0.307**	
Agricultural	0.022	7.2 %
Local Government	0.071	23.1 %
Private Rural	0.205	66.8 %
Other (includes Water)	0.009	2.9 %

Table 2. Summary of potential contaminant sources in the Drinking Water Source Area(s)

See Appendix 2 for a Key to Tables for Notes and Descriptions of Acronyms.
See Table 3 for a detailed list of potential contaminant sources including those identified in Table 2.

Notes:
[1] DEQ PCS Code is an internal code for grouping types of potential contaminant sources.
[2] GW Risk is the relative risk from the potential source(s) that could, if improperly managed, impact the groundwater quality.
[3] This summary includes potential contaminant sources identified in readily available state and federal regulatory databases, which may include point and nonpoint potential sources identified in the original Source Water Assessment (written between 1998 and 2005) that included a windshield survey of the watershed. There may be some duplication of counts where sites were identified more than once. Because of state database limitations, some sites will require further research to verify presence and location.

PWS ID	PWS Name	Subbasin	Population Served	County Served
4100458	*Riverbend-Riverbank Community*	*Middle Willamette*	*225*	*Clackamas*

Summary of Regulatory Database Results- State and Federal- see Table 3 for detailed list			
DEQ PCS Code (1)	Potential Contaminant Source (PCS) Type	GW Risk (2)	Count (3)
Class: Commercial/Industrial			
C20	Parking Lots/Malls - > 50 Spaces	H	1
Class: Residential/Municipal			
R13	Parks	M	1
Class: Miscellaneous			
M08	Homesteads - Rural - Machine Shops/Equip Maintenance	H	1
M09	Homesteads - Rural - Septic Systems < 1/Acre	L	1
M14	River Recreation - Heavy Use (inc. Campgrounds)	L	1
M23	UST - Confirmed Leaking Tanks - DEQ LUST List	H	1
M30	Wells - Residential/Commercial/Industrial	H	1
M31	Large Capacity Septic Systems -Class V UIC (serves >20)	H	1

Table 3. Inventory of potential contaminant sources in the Drinking Water Source Area(s) as identified in readily accessible state and federal databases and GIS layers
See Appendix 2 for a Key to Tables for Notes and Descriptions of Acronyms.
For public water systems with more than one groundwater source, additional detailed summaries can be provided for individual wells upon request.

Notes:
* This information supplements the original Source Water Assessment inventory (compiled between 1998 and 2005) and should be used in conjunction with the original inventory to provide a more detailed analysis of potential contaminant sources.
* Note that because of limitations for locational data in state databases, some locations will need further research to verify presence and location.
* There may be some duplication where sites are identified in multiple regulatory databases or in both the original and updated Source Water Assessments.
[1] Site ID includes the regulatory database name and the facility identifier from the program's database.
[2] PCS Type includes DEQ internal code for sorting and grouping types of potential contaminant sources.
[3] GW Risk is the relative risk for potential sources that could, if improperly managed, impact the groundwater quality.

PWS ID	PWS Name	Subbasin	Population Served	County Served
4100458	*Riverbend-Riverbank Community*	*Middle Willamette*	*225*	*Clackamas*

Regulatory Database Results- State and Federal

Site ID (1)	Status	Common Name	Location	Data Source	PCS Type (2)	GW Risk (3)
Class: All Regulatory Database Results						
LUST- 03-07-1763	REPORTED	Heating Oil Tank	451 SW HEBB PARK RD, Clackamas	DEQ/LUST 10/31/2018	M23 : UST - Confirmed Leaking Tanks - DEQ LUST List	H
Class: DEQ/OHA-USWA 2016-2019						
DEQ/OHA-USWA 2016-2019 20861	C20-Parking Lots/Malls - > 50 Spaces	Parking lot at Hebb Park boat launch	Next to river at the end of SW Hebb Park Rd, West Linn, Clackamas	DEQ/OHA-USWA 2016-2019	C20 : Parking Lots/Malls - > 50 Spaces	H
Class: Previously identified In 2000-2005 Source Water Assessment (PWS should verify presence, potential risk and location)						

Regulatory Database Results- State and Federal

Site ID (1)	Status	Common Name	Location	Data Source	PCS Type (2)	GW Risk (3)
DWP- PCS - 6951	M14 - River Recreation - Heavy Use (inc. Campgrounds)	Hebb Memorial Park	N side of Willamette River, at Walnut Eddy, West Linn, Clackamas	DEQ/OHA SWA 2000 - 2005	M14 : River Recreation - Heavy Use (inc. Campgrounds)	L
DWP- PCS - 6951	M31 - Large Capacity Septic Systems -Class V UIC (serves >20)	Hebb Memorial Park	N side of Willamette River, at Walnut Eddy, West Linn, Clackamas	DEQ/OHA SWA 2000 - 2005	M31 : Large Capacity Septic Systems -Class V UIC (serves >20)	H
DWP- PCS - 6951	R13 - Parks	Hebb Memorial Park	N side of Willamette River, at Walnut Eddy, West Linn, Clackamas	DEQ/OHA SWA 2000 - 2005	R13 : Parks	M
DWP- PCS - 6950	M08 - Homesteads - Rural - Machine Shops/Equip Maintenance	Riverbend Community	Surrounding wellheads, West Linn, Clackamas	DEQ/OHA SWA 2000 - 2005	M08 : Homesteads - Rural - Machine Shops/Equip Maintenance	H
DWP- PCS - 6950	M09 - Homesteads - Rural - Septic Systems < 1/Acre	Riverbend Community	Surrounding wellheads, West Linn, Clackamas	DEQ/OHA SWA 2000 - 2005	M09 : Homesteads - Rural - Septic Systems < 1/Acre	L
DWP- PCS - 6950	M30 - Wells - Residential/Commercial/Industrial	Riverbend Community	Surrounding wellheads, West Linn, Clackamas	DEQ/OHA SWA 2000 - 2005	M30 : Wells - Residential/Commercial/Industrial	H